U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. UTILITY PATENT APPLICATION

Attorney Docket No. jmz-0018 Ming (Jason) Zhang First Inventor Irreversible Indication f Overheated Title Railway Vehicle Components

TRANSMITTAL

Conty for new nonprovision	nai applications under 37 CFR 1.53(	D)) Expres	S Mail Label 190.	
APPLICA	tion elements	ADI	DDCCC TO.	stant Commissioner for Patents Patent Application
See MPEP chapter 600 con	ceming utility patent application cont	r "		chington, DC 20231
1. Fee Transmittal F (Submit an original and a Applicant claims s See 37 CFR 1.27 Specification (preferred arrangement - Descriptive title - Cross Reference - Statement Reg - Reference to se or a computer p - Background of - Brief Summary	orm (e.g., PTO/SB/17) duplicate for fee processing) small entity status.  [Total Pages 27] at set forth below) of the invention se to Related Applications arding Fed sponsored R & D equence listing, a table, program listing appendix the Invention of the Invention on of the Drawings (if filed) intion  Disclosure	7	CD-ROM or CD-R in Computer Program (icleotide and/or Amino Adapplicable, all necessary) Computer Readable Specification Sequence i. CD-ROM or ii. paper Statements verifying ACCOMPANYING Assignment Papers 37 CFR 3.73(b) Statement is an adaptive and in the statement is an adaptive and in the statement is an adaptive and in the statement in the st	duplicate, large table or  Appendix) cid Sequence Submission ) e Form (CRF) Listing on: r CD-R (2 copies); or  rg identity of above copies  APPLICATION PARTS (cover sheet & document(s)) rtement Power of ssignee) Attorney  Document (if applicable) ure Copies of IDS
b. Copy from a (for continual in DELET Signed ste named in 1.63(d)(2)	uted (original or copy) In prior application (37 CFR 1.63 (d)) Ition/divisional with Box 18 completed ION OF INVENTOR(S) Interment attached deleting inventor(s) the prior application, see 37 CFR and 1.33(b).  Sheet. See 37 CFR 1.76	13. 14. 15. 16. 17.	(if foreign priority is Nonpublication Re	stcard (MPEP 503) ally itemized) riority Document(s)
or in an Application Data She  Continuation  Prior application information:  For CONTINUATION OR DIVISI Box 5b, is considered a part of	Divisional Continuation-in-part  Exeminer: ONAL APPS only: The entire disclosure of the disclosure of the accompanying of relied upon when a portion has been in	e of the prior appropriate on the prior appropriate on the prior appropriate on the continuation or displayed and the continuation of the continua	of prior application No.:  Group Art Unit: blication, from which an oa wistonal application and is ted from the submitted application and stated from the submitted application from the submitted application and stated from the submitted from the submit	th or declaration is supplied under hereby incorporated by reference.
	(Inscrit Customer No. or Al	IECH DEF COUS IEDEN N	30) -	
Name	Ming (Jason) Zhang			
	5270 Rosedale Aveni	n <b>e</b>	<del> </del>	
Address		······································		
City	Montreal	State	Quebec	Zip Code NAV 2R6
Country	Canada	Telephone	514-482-3453	Fax 514-482-3453
Name (Print/Type)	Ming (Jason) Zhang	Reg	istration No. (Attorney	/Agent)

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PTO/SB/17 (10-01)
Approved for use through 10/31/2002. OMB 0651-0032
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## FEE TRANSMITTAL for FY 20024

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT
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(\$)	484	.00
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Application Number		
Filing Dat		
First Named Inv ntor	Ming (Jason) Zhang	
Examiner Name		
Group Art Unit		
Attorney Docket No.	jmz-0018	

METHOD OF PAYMENT	FEE CALCULATION (continued)				
1. The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES				
indicated fees and credit any overpayments to:	Large Small				
Account	Entity Entity Fee	Fan Bald			
Number Deposit	Code (\$) Code (\$)	Fee Paid			
Account	105 130 205 65 Surcharge - late filing fee or oath				
Name L	127 50 227 25 Surcharge - late provisional filing fee or	1			
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	cover sheet				
Applicant claims small entity status.	139 130 139 130 Non-English specification				
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for ex parte reexamination				
2. Payment Enclosed:	112 920* 112 920* Requesting publication of SIR prior to	ĺ			
Check C Credit card Money Other	Examiner action				
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action				
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month				
Large Entity Small Entity	116 400 216 200 Extension for reply within second month				
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 920 217 460 Extension for reply within third month				
404 740 204 270 1875 575 60	118 1,440 218 720 Extension for reply within fourth month				
101 740 201 370 Offinty filing fee 385.00	128 1,960 228 980 Extension for reply within fifth month				
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal				
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal				
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing				
011DTOTAL (4) (4) 295 MM	138 1,510 138 1,510 Petition to institute a public use proceeding				
SUBTOTAL (1) (\$) 385.00	140 110 240 55 Petition to revive - unavoidable				
2. EXTRA CLAIM FEES	141 1,280 241 640 Petition to revive - unintentional				
Extra Claims halora Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)				
Total Claims 31 -20** = 11 x 9 = 99.00 Independent 3 2** - 0 x 83 0.00	143 460 243 230 Design issue fee				
Claims 2 3 - 0 ^ 2 0.00	144 620 244 310 Plant issue fee				
Multiple Dependent	122 130 122 130 Petitions to the Commissioner				
i oggo Entitu Carell Entitu	123 50 123 50 Processing fee under 37 CFR 1.17(q)				
Large Entity Small Entity Fee Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt				
Code (\$) Code (\$)	581 40 581 40 Recording each patent assignment per	l			
103 18 203 9 Claims in excess of 20	property (times number of properties)				
102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))				
104 280 204 140 Multiple dependent claim, if not paid	149 740 249 370 For each additional invention to be				
109 84 209 42 ** Reissue Independent claims over original patent	examined (37 CFR § 1.129(b))				
110 18 210 9 ** Reissue claims in excess of 20	179 740 279 370 Request for Continued Examination (RCE)				
and over original patent	169 900 169 900 Request for expedited examination				
SURTOTAL (2) (\$) 99.00	of a design application  Other fee (specify)				
SUBTOTAL (2) (5) 35.00	(a) 0.00				
**or number previously paid, if greater, For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00					

SUBMITTED BY			Complete (i	Complete (if applicable)	
Name (Print/Type)	Ming (Jason) Zhang	Registration No. (Attorney/Agent)	Telephone	514-482-3453	
Signature			Date	01/23/2004	

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jmz 00 18

1 page

Dear Sir/Madam:

Transmitted herewith for filing is the patent application of:

Inventor:

Ming (Jason) Zhang

For:

Irreversible Indication of Overheated Railway Vehicle Components

Filing Date:

Jan 23, 2004

## Enclosed are:

Specification: 14 sheets
Claim: 12 sheets
Abstract: 1 sheet
Formal drawings: 4 sheets

Initial Information Data Sheet:

PTO/SB/05	Utility Patent Application Transmittal	1 page
PTO/SB/17	Fee Transmittal for FY 2004	1 page
PTO/SB/17	Fee Transmittal for FY 2004 (duplicate)	1 page
PTO/SR/01	Declaration for Utility or Design Patent Application	2 nages

PTO/SB/01 Declaration for Utility or Design Patent Application 2 pages
PTO-2038 Credit Card Payment Form 1 page
PTO/SB/09 Statement Claiming Small Entity Status 1 page
PTO/SB/08A Information Disclosure Statement by Applicant 1 page

The filing fee has been calculated as shown in the enclosed PTO/SB/17.

A credit card payment in amount of \$484.00 to cover the filing fee is enclosed in PTO-2038

Date: 01/23/2004

Ming (Jason) Zhang 5270 Rosedale Avenue

Montreal, Quebec, Canada, H4V 2H6

Telephone: 514-482-3453 Independent Applicant